

Please delete pages 103-116 of the specification and insert in lieu thereof new pages 109-133. Please renumber pages 117-122 as pages 103-108.

IN THE CLAIMS:

Please cancel claims 1 and 7.

Claim 2, line 1, please change "1" to --3--; and
line 2, please delete "isolated, enriched, or purified".

Please amend Claim 3 as follows:

1. ~~1.~~ (TWICE AMENDED) [The] An isolated, enriched or purified nucleic acid molecule [of claim 1, wherein said molecule] comprising a nucleotide sequence which encodes at least [12] 35 contiguous amino acids of the [full length] amino acid sequence [of Figure 3] set forth in SEQ ID NO:36.

2. [Please amend Claim 4 as follows:]

2. ~~2.~~ (TWICE AMENDED) [The] An isolated or purified nucleic acid probe comprising a nucleic acid molecule [of Claim 1, wherein said molecule encodes] encoding at least [12] 35 contiguous amino acids of the [full length] amino acid [of Figure 3] sequence set forth in SEQ ID NO:36.

3. [Please amend Claim 5 as follows:]

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3.8. (TWICE AMENDED) The isolated or purified nucleic acid probe of claim 4 wherein said polypeptide comprises at least [25] 40 contiguous amino acids of the amino acid sequence [shown] set forth in [Figure 3] SEQ ID NO:36.

Please amend Claim 6 as follows:

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9.6. (TWICE AMENDED) [A] The isolated or purified nucleic acid vector [comprising a nucleic acid molecule encoding a BDP1 polypeptide and] of claim 8, wherein said at least one other element is a promoter [in a host cell].

Please amend Claim 8 as follows:

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4.8. (TWICE AMENDED) A [recombinant] nucleic acid molecule produced by recombinant means comprising a transcriptional region functional in a cell, a nucleotide sequence [complementary to an RNA sequence] encoding a [BDP1] polypeptide having the amino acid sequence set forth in SEQ ID NO:36 and a transcriptional termination region functional in [a] the cell,
so that the nucleic acid molecule is effective to initiate transcription in the cell.

Please amend Claim 18 as follows:

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18. (TWICE AMENDED) An isolated, enriched, or purified nucleic acid molecule comprising a nucleotide sequence that:

(a) encodes a full length [amino acid sequence as] polypeptide having the amino acid sequence set forth in [Figure 3] SEQ ID NO:36;

(b) is the complement of the nucleotide sequence of (a); or

(c) hybridizes under [highly stringent] conditions to the nucleic acid molecule of (b), wherein said conditions are at least as stringent as one of the following:

i) 50% formamide, 5 x SSC, 0.75 M NaCl, 0.075 M Sodium pyrophosphate, 5 x Denhart's solution, sonicated salmon sperm DNA (50 g/ml), 0.1% SDS, and 10% dextran sulfate at 42 C, with washes at 42 C in 0.2 x SSC and 0.1% SDS

[(a) and encodes a naturally occurring BDP1 protein;

(d) encodes a polypeptide having the full length amino acid sequence set forth in Figure 3 except that it lacks one or more of the domains selected from the group consisting of an N-terminal domain, a catalytic domain, and a C-terminal region; or

(e) is the complement of the nucleotide sequence of (d)].

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819. (ONCE AMENDED) [A] An isolated, enriched or purified nucleic acid vector comprising a nucleic acid molecule of claim 18, 21 or 22 and at least one other element.

20. (ONCE AMENDED) A recombinant cell or recombinant tissue comprising a nucleic acid molecule of claim 18, 21 or 22 and a cell or tissue, wherein the nucleic acid molecule is introduced into the cell or tissue, respectively.

Please add the following new claims:

--21. (NEW) An isolated, enriched or purified nucleic acid molecule comprising a nucleotide sequence that

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(a) encodes a polypeptide that differs from the polypeptide having the full-length amino acid sequence set forth in SEQ ID NO:36 by lacking one or more, but not all, of the domains selected from the group consisting of an N-terminal domain, a catalytic domain and a C-terminal region; or

(b) is the complement of the nucleotide sequence of (a).